



blueprism®

SECTION 2

ACTIVITY SHEET

FOUNDATION TRAINING GUIDE

Suitable for Blue Prism version 6.2 or greater



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Section 2 Activity Sheet

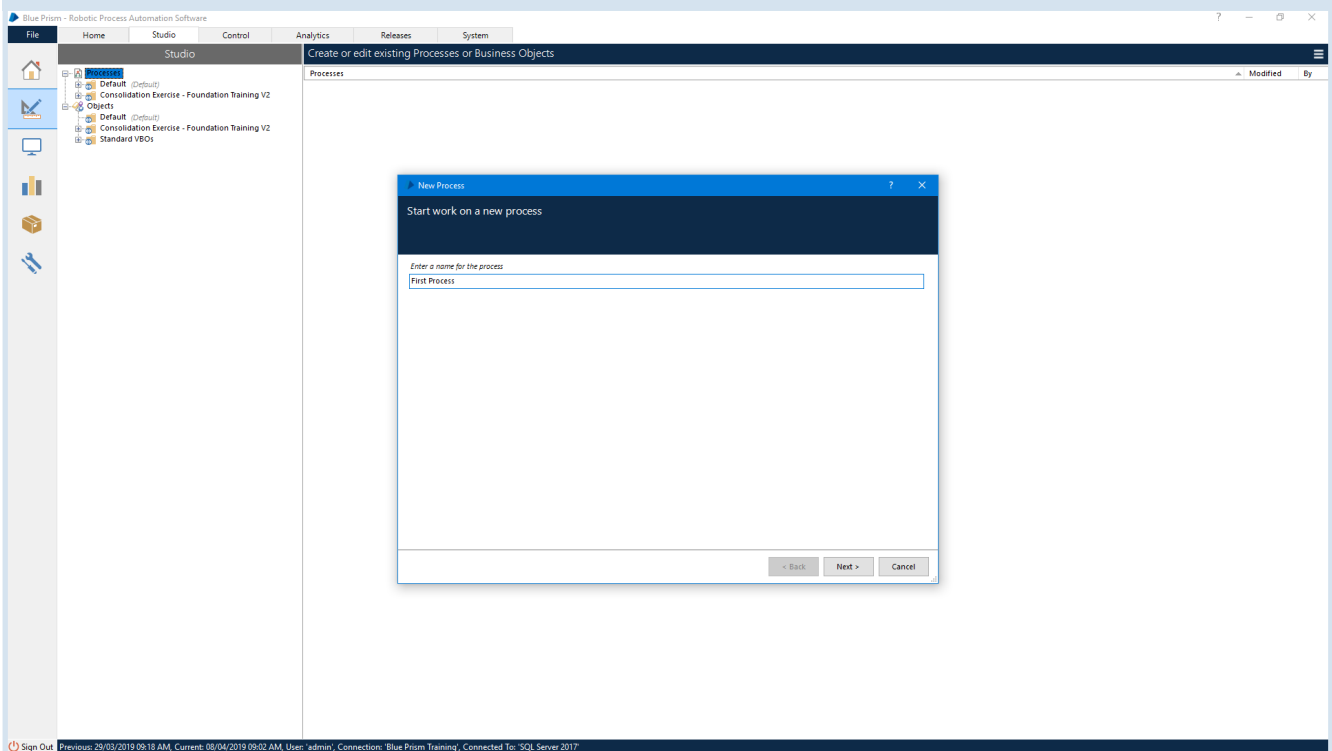
In this activity, you will add a Calculation Stage to your Process Diagram that uses Data Items with numerical values. In this scenario, you will add together the scores of two test papers to determine the final score result.

SECTION 2 ACTIVITY 1

Video 2.1

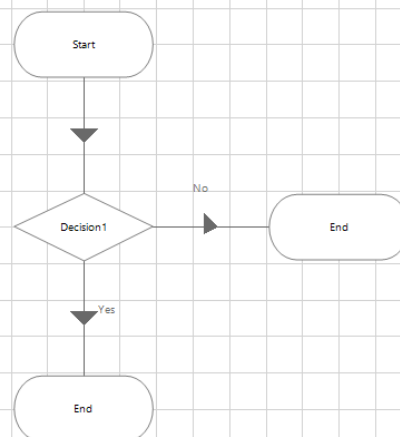
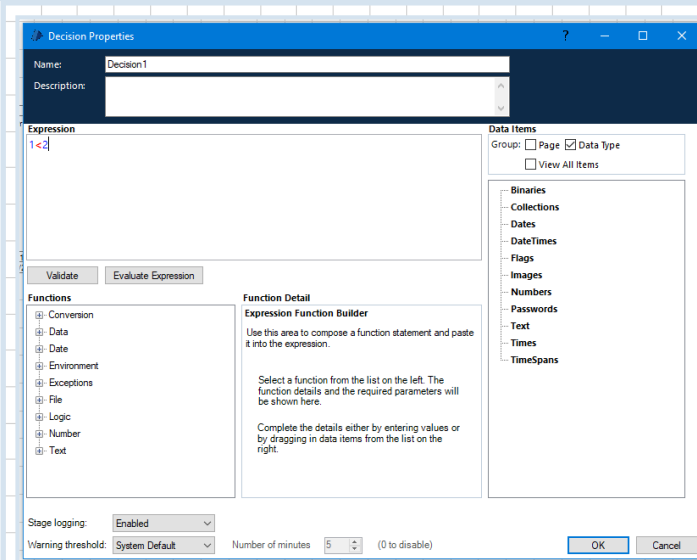
Create a New Process.

- *Right-click* on the *Processes* heading in the Studio Area of Blue Prism and select *Create Process* from the menu.
- Give your Process a name – *First Process* – and enter a brief description of what it does.
- The new Process created will appear beneath the *Processes* heading. *Double-click* to open it.



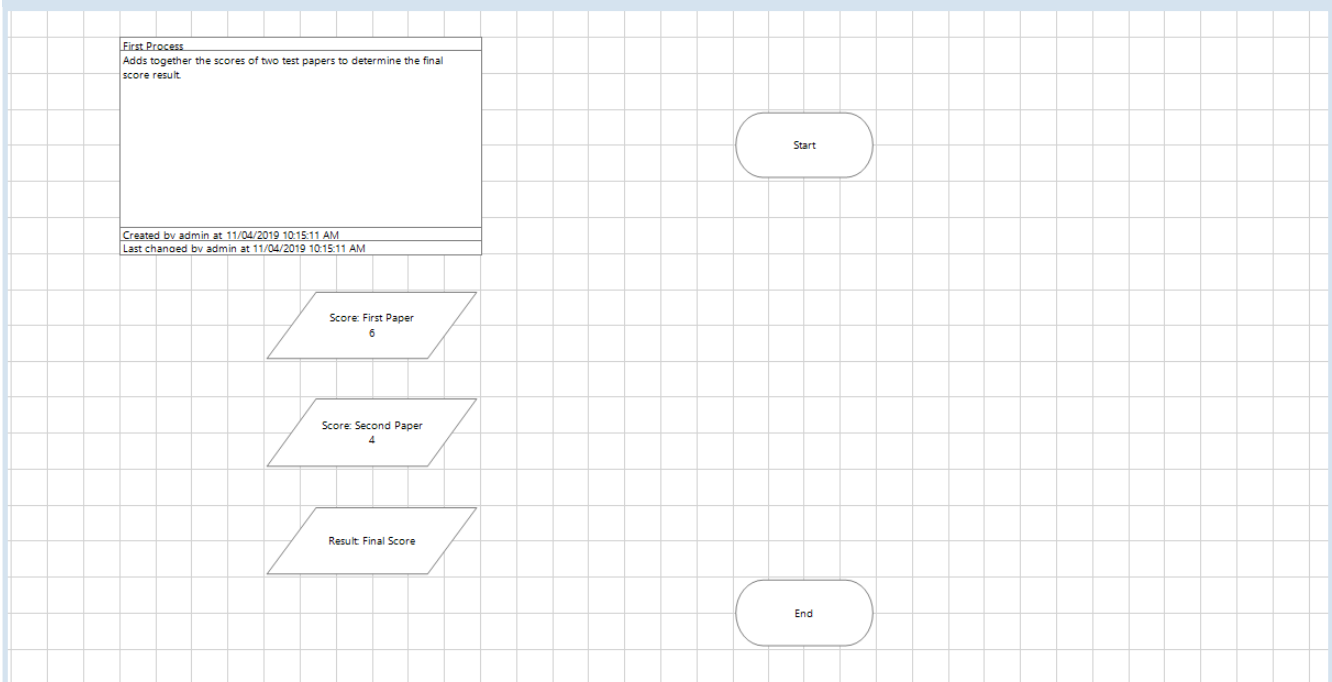
Add a Decision Stage to your workspace and link it to the Start and two End Stages.

- Add a Decision Stage to your Process Diagram and *double-click* or *right-click* on the Decision Stage to open the Decision Stage properties window.
- Enter the Expression `1 > 2` into the Expression Area.
- Press **OK** to confirm these changes and to close the properties window.
- Add a second End Stage to your workspace and use the Link Tool to link the Start Stage to the Decision Stage.
- From the Decision Stage, pull a link to each End Stage.
- Click **Reset**, then **Go**.
- The Process should flow through the Decision Stage, determine that *1 is not greater than 2* and then progress along the **No** branch to the second End Stage.
- Now swap the **Yes** and **No** branches around, by *right-clicking* on the Decision Stage and selecting **Switch**.
- Reset and replay the Process which should now flow down the **Yes** branch to the original End Stage.



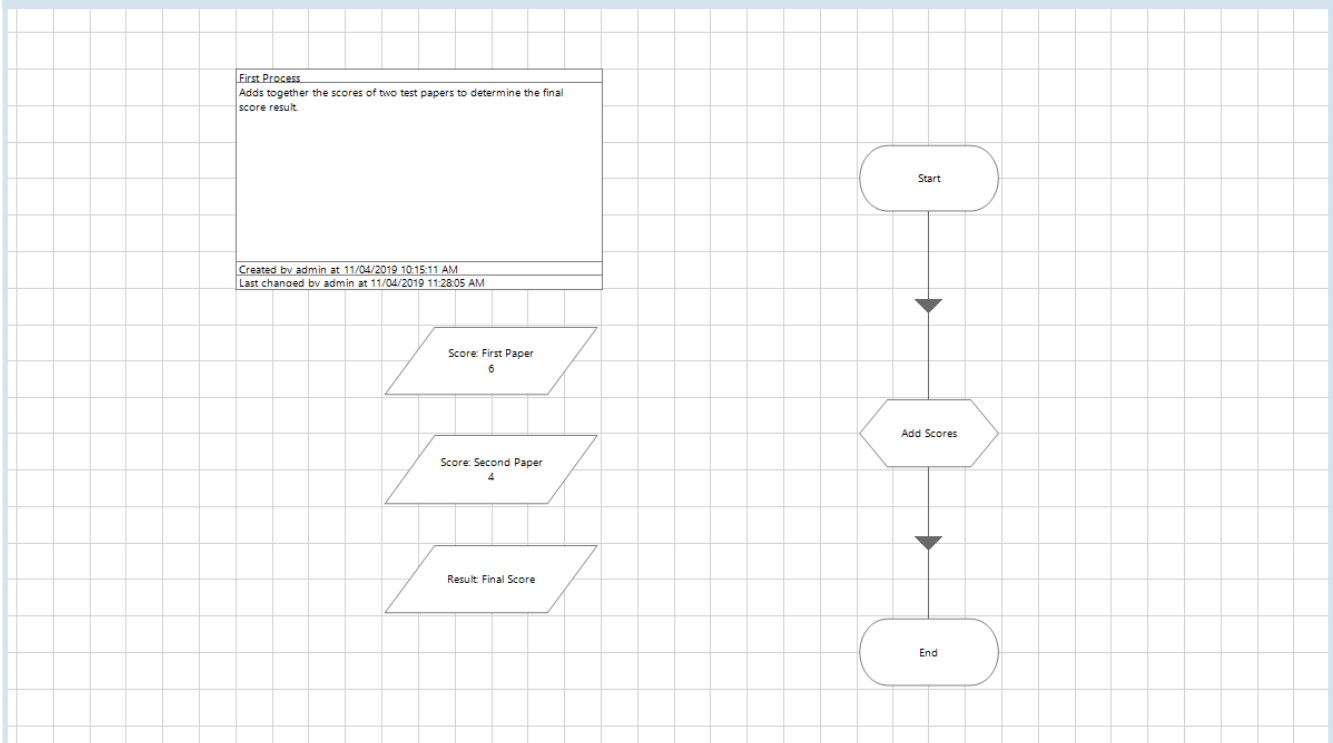
Add three Data Items to the workspace and set their properties to numerical values.

- *Delete* the Decision Stage and the second End Stage that you added in the previous activity.
- Locate and click the *Data Item Stage* on the Stages Toolbar.
- Click on the workspace to add a Data Item.
- *Double-click* the Data Item to access the properties.
- Choose *Number* as the Data Type.
- Type in an Initial Value of your choosing.
- Choose a name for your Data Item – *Score First Paper*.
- Repeat by adding a second Data Item and setting the Data Type to Number.
- Type in an Initial Value of your choice.
- Choose a name for your second Data Item – *Score Second Paper*.
- Add a third Data Item to your workspace.
- Choose *Number* as the Data Type. But this time, leave the Initial Value blank.
- Choose a name for your third Data Item – *Result Final Score*.



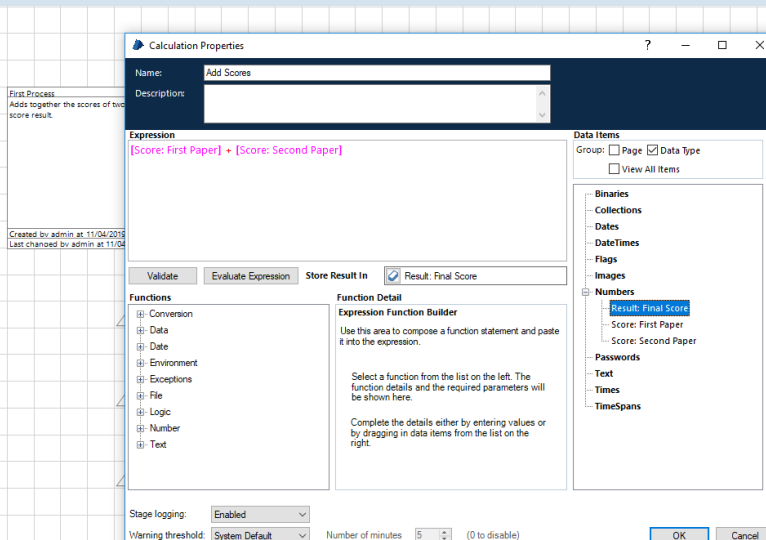
Add a Calculation Stage to your workspace and link it to the Start and End Stages.

- Locate and click the *Calculation Stage* on the Stages Toolbar.
- Click on the workspace to add the Calculation Stage.
- Locate and click the Link Tool on the Stages Toolbar.
- Click and *drag* a link from the centre of the Start Stage to the centre of the Calculation Stage.
- Click and *drag* a link from the centre of the Calculation Stage to the centre of the End Stage.



Set the properties of the Calculation Stage to instruct it to use the Data Items to perform its calculation.

- *Double-click* the Calculation Stage to access the properties.
- In the Data Items menu on the right, locate the little box with a plus symbol (+) next to Numbers and click it to access the numerical Data Items.
- Click and *drag* the Data Item holding the score for the first paper (*Score First Paper*) into the Expression Area.
- Type + after the first Data Item.
- Click and *drag* the Data Item holding the score for the second paper (*Score Second Paper*) into the Expression Area, after the +.
- Click and *drag* the Data Item holding the result (*Result Final Score*) into the Store Result In box.
- Check the Expression for errors by clicking the *Validate* button.
- Close the pop-up box.
- Click *OK* to close the properties window.
- Click *Reset*, then *Go* to run the Process.
- Check the number in the Data Item holding the result (*Result Final Score*).
- It should display the sum total of the Initial Values you entered for the first (*Score First Paper*) and second (*Score Second Paper*) Data Items.



Induce some errors in the Process and then perform Validation.

- *Delete* the link between the Calculation Stage and the End Stage.
- *Delete* a bracket from the Expression in the Calculation Stage properties.
- Reset the Process.
- Click the *Validation* button.
- In the Process Validation window, click on an error and then click the *Go To Stage* button to highlight the exact Stage that is generating the error.
- Click the *Help* button to assist troubleshooting the error.
- Once you have explored the Process Validation options, return the Process back to its original state.

The screenshot displays the Process Studio application. On the left is a palette with various process elements like Link, Block, Process, Page, Action, Decision, Choice, Calculation, Multi Calc, Data Item, Collection, Loop, Note, Anchor, End, Alert, Exception, Recover, and Resume. The main workspace shows a process diagram with a Start node, a Calculation stage named 'Calc1', and an End node. Below the diagram are two data items: 'Score Second Paper A' and 'Result Final Score'. A 'Process Validation - First Process' window is open, showing a table of errors:

Page	Stage Name	Type	Action	Description	Reparable
Main Page	Calc1	Error	Validate	Invalid expression - Missing)	No
Main Page	Calc1	Error	Validate	Missing link	No

Below the table, it states '2 results. No issues can be automatically repaired'. There are buttons for 'Check Again', 'Include Business Objects', 'Related Help...', 'Go To Stage', 'Repair All', 'Help', and 'Close'. The status bar at the bottom indicates 'Autosave backup made at 15:34. Next autosave will occur at 15:44.'